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San Diego Regional  
Water Quality Control Board

# **Workshop - Upper Santa Margarita Watershed Municipal Storm Water Permit**

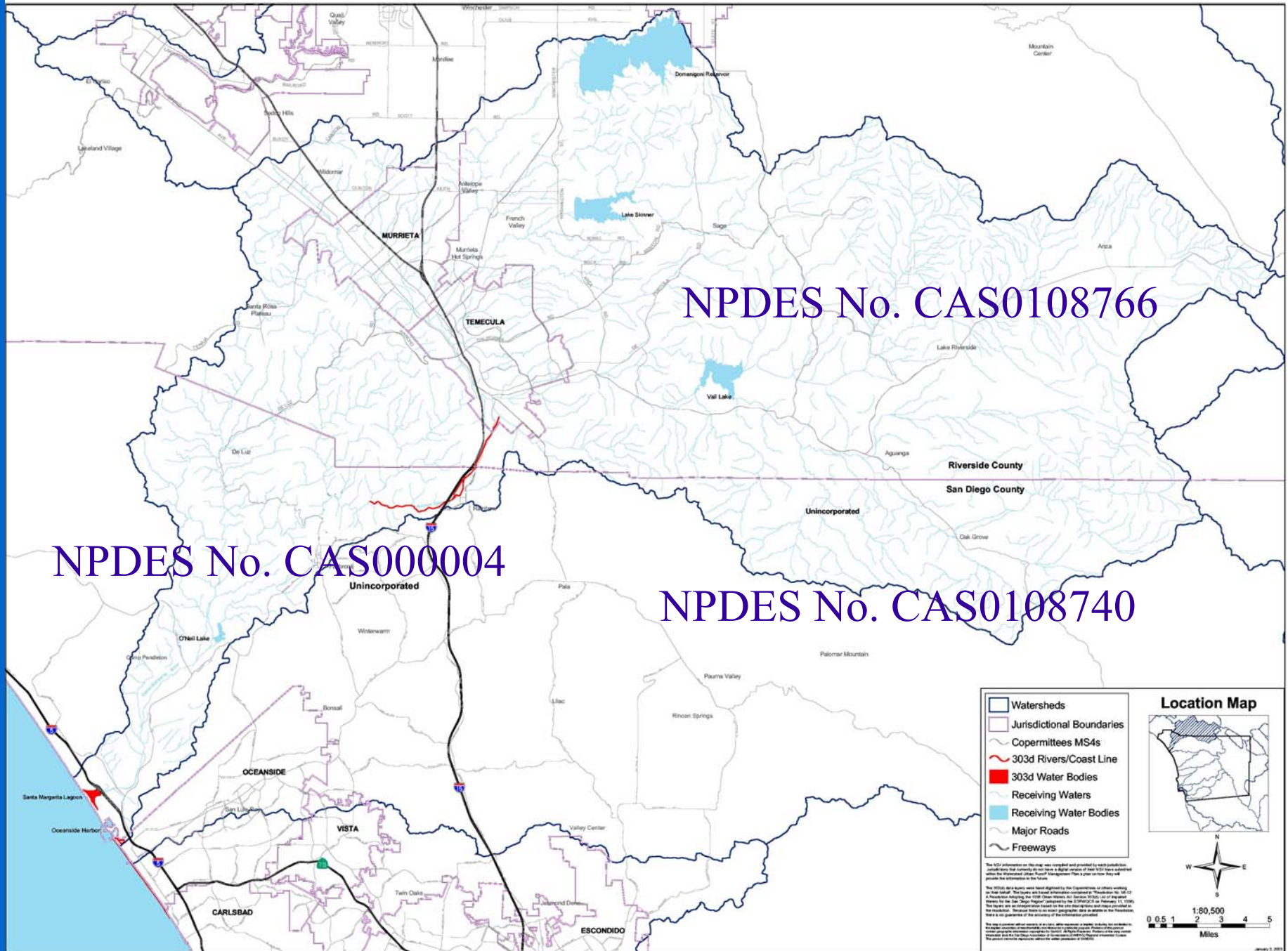
## **Session 1 – Commercial/Industrial**

Purpose – To inform the business community of what they can expect after the renewal of the NPDES permit for discharges of storm water in the upper Santa Margarita Watershed

January 23, 2004

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# Municipal Storm Water Permits for the Santa Margarita Watershed



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## BENEFICIAL USES OF WATER THAT PERMIT IS PROTECTING

- Municipal and Domestic Supply
- Habitat
- Recreation

## WATER QUALITY CONCERNS

| Waterbody              | 303(d) Listed Impairment | Constituents of Potential Concern                                 |
|------------------------|--------------------------|---|
| Santa Margarita Lagoon | Eutrophication           | Sedimentation / Siltation   |
| Rainbow Creek          | Eutrophication           | Sediment Toxicity, Sulfate, TDS, Trash, Sedimentation / Siltation |
| Murrieta Creek         | Phosphorus               | Iron, Manganese, TDS, Sedimentation / Siltation                   |
| Santa Margarita River  | Phosphorus               | Iron, Manganese, Sulfate, TDS, Sedimentation / Siltation          |
| Sandia Creek           | None                     | Lead, Sulfate, Sedimentation / Siltation                          |
| Deluz Creek            | None                     | Sulfate, TDS, Sedimentation / Siltation                           |

# BACKGROUND

- Federal Program under Clean Water Act
- In place since 1990
- Order No. R9-2004-001 is a re-issuance of the previous second term permit
- Basic requirements of permit have been in place for 13 years
- New permit clarifies expectations

# PERMIT PROCESS SCHEDULE

- December 15 – Start of public comment period
- January 23 – Series of focused workshops
- January 28 – Deadline for submittal of written comments for February 11, 2004 hearing
- February 11 - SDRWQCB public hearing at Rancho California Water District
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- *Industrial/Commercial Facilities*

## Differences in Current and Draft Permits

- The draft requirements are not significantly different than current requirements.
- Business owners may be required to implement new BMPs, depending on the minimum requirements the Permittees develop.

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## *Industrial/Commercial Facilities*

# Current and Draft Comparison

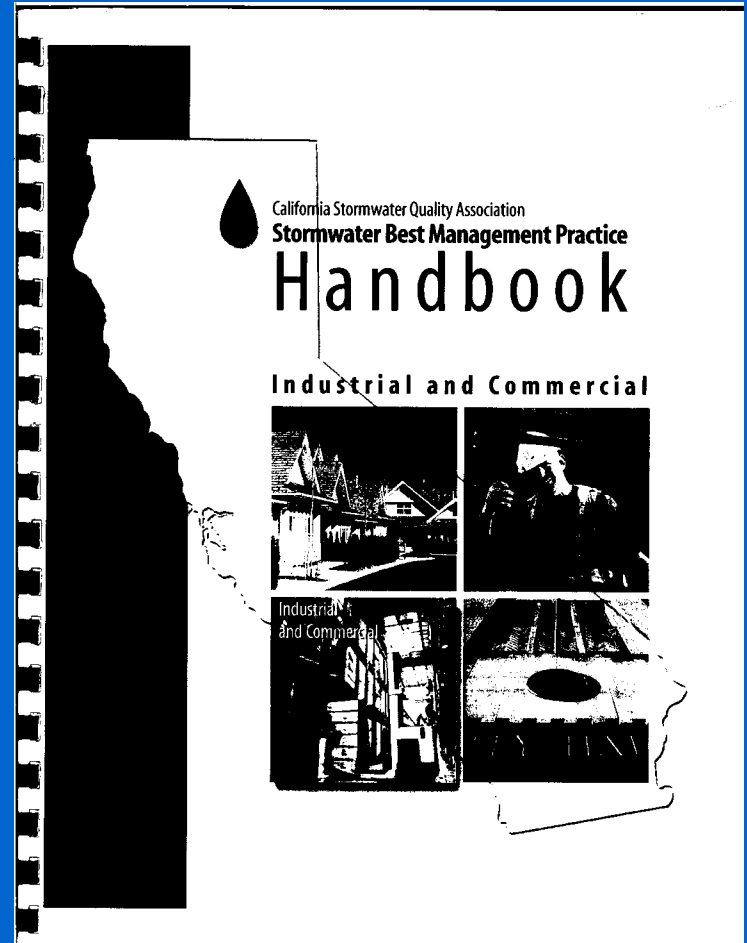
| Requirement                 | Current Permit  | Draft Permit   |
|-----------------------------|---|--|
| Reduce Pollutants in Runoff | Required  | No change  |
| Prohibit Illicit Discharges | Required  | No change  |
| Inspections                 | Required – Food facilities are inspected annually, facilities with hazardous material mngt permits are inspected biannually | High priority facilities to be inspected annually, medium priority facilities biannually, low priority facilities once every 5 years |
| BMP Implementation          | Indirectly Required (BMPs listed on inspection forms)   | Permittees to develop minimum BMPs that may differ from what is currently expected   |
| Monitoring, Reporting, Fees | None required   | None required (Permittees could require)   |

## *Industrial/Commercial Facilities*

# BMP Requirements

- Permittees have flexibility in developing BMP requirements
- Orange County Permittees selected required BMPs from the California Stormwater Quality Association BMP Handbooks

[www.cabmphandbooks.com](http://www.cabmphandbooks.com)



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*Industrial/Commercial Facilities*

## Examples of Typical BMPs

- Good Housekeeping
- Staff Training
- Spill Response Plan
- Self-Inspections
- Covered Dumpsters
- Contained or covered material storage areas
- Reduction of toxic chemical use
- Discharge wash water to sanitary sewer

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*Industrial/Commercial Facilities*

## BMPs Currently Expected

### **Food Facility Compliance Survey Form:**

- Proper grease disposal and management
- Wash water from grease filters, floor mats, floors and grills is discharged to sanitary sewer
- Wash water from sidewalks, outside seating, and drive-thrus is discharged to sanitary sewer
- Covered and maintained dumpsters
- Employee education and awareness

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*Industrial/Commercial Facilities*

## BMPs Currently Expected

### **Haz. Mat. Facility Compliance Survey Form:**

- Minimize and cover outdoor storage of chemicals
- Dumpster maintenance
- Aboveground tank maintenance, including secondary containment
- Protect on-site storm drain from discharges
- Power wash, steam cleaning and mop water drains to sanitary sewer
- No evidence of illicit discharges
- Employee education

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*Industrial/Commercial Facilities*

## Related Permit Sections

- Standard Urban Storm Water Mitigation Plans (SUSMPs) - Section F
  - New facilities
  - Redevelopment of existing facilities that creates greater than 5000 ft<sup>2</sup> of new surface area (i.e., parking lot expansion)
- Illicit Discharge Detection & Elimination - Section J
  - All discharges that are not composed entirely of storm water, or permitted by another NPDES permit are prohibited
  - List of non-prohibited discharges in Section B.2

## Conclusion

- You can expect that the renewal of the NPDES Permit will have little impact to your operation if you are currently implementing BMPs to reduce pollutants in runoff from your facility. However, additional BMPs may be required by your local government if adequate BMPs are not being implemented.

# Questions?

- Megan Quigley (858) 268-5363 [mquigley@rb9.swrcb.ca.gov](mailto:mquigley@rb9.swrcb.ca.gov)
- Bob Morris (858) 467-2962 [morrb@rb9.swrcb.ca.gov](mailto:morrb@rb9.swrcb.ca.gov)
- Eric Becker (858) 492-1785 [becke@rb9.swrcb.ca.gov](mailto:becke@rb9.swrcb.ca.gov)
- Copy of Tentative Permit, Fact Sheet and Renewal Schedule:

[http://www.swrcb.ca.gov/rwqcb9/programs/rsd\\_stormwaterhtml](http://www.swrcb.ca.gov/rwqcb9/programs/rsd_stormwaterhtml)



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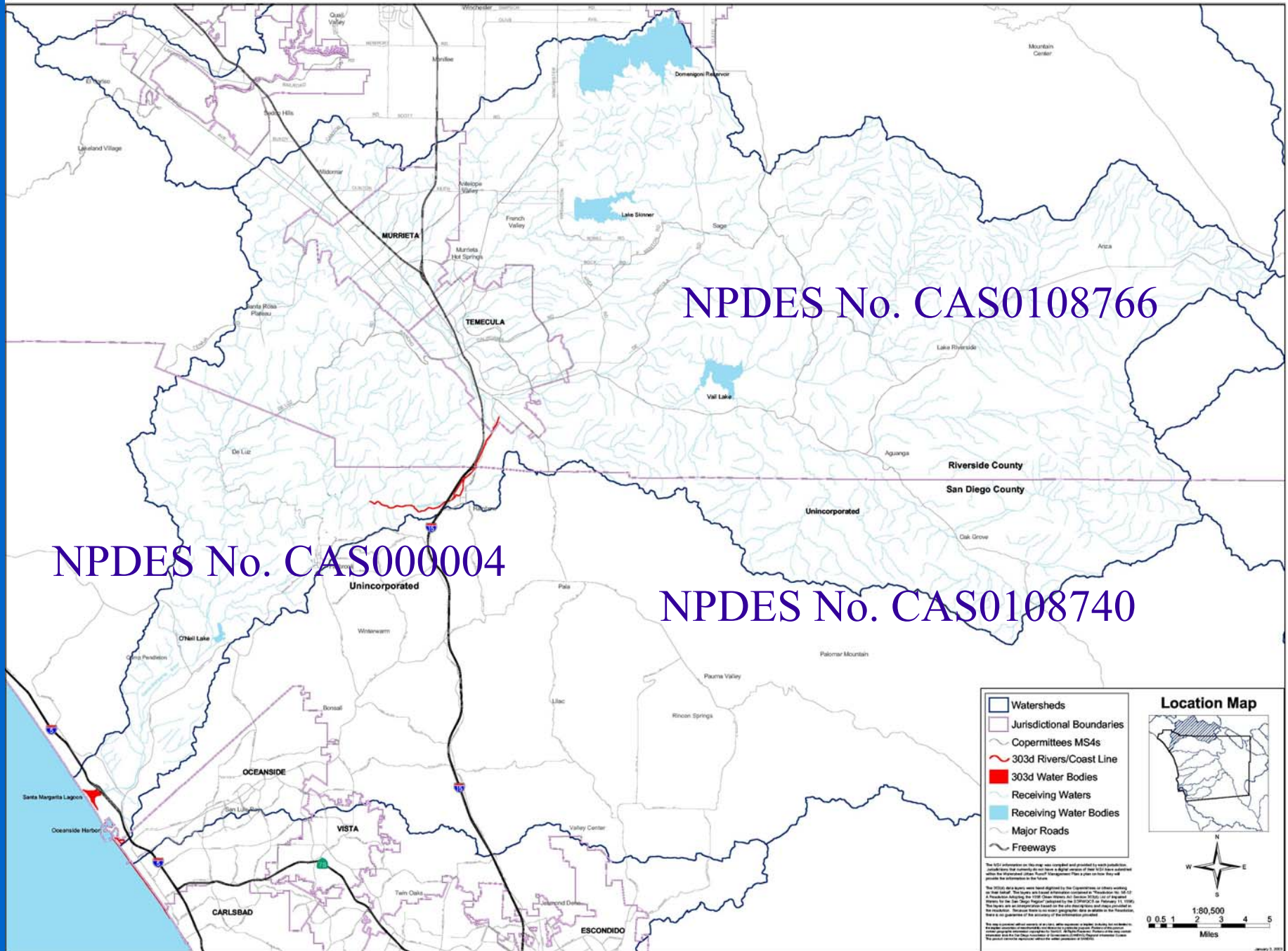
## **Session 2 – New Development & Construction**

Purpose – To inform the development community of what they can expect after the renewal of the NPDES permit for discharges of storm water in the upper Santa Margarita Watershed

**January 23, 2004**



# Municipal Storm Water Permits for the Santa Margarita Watershed



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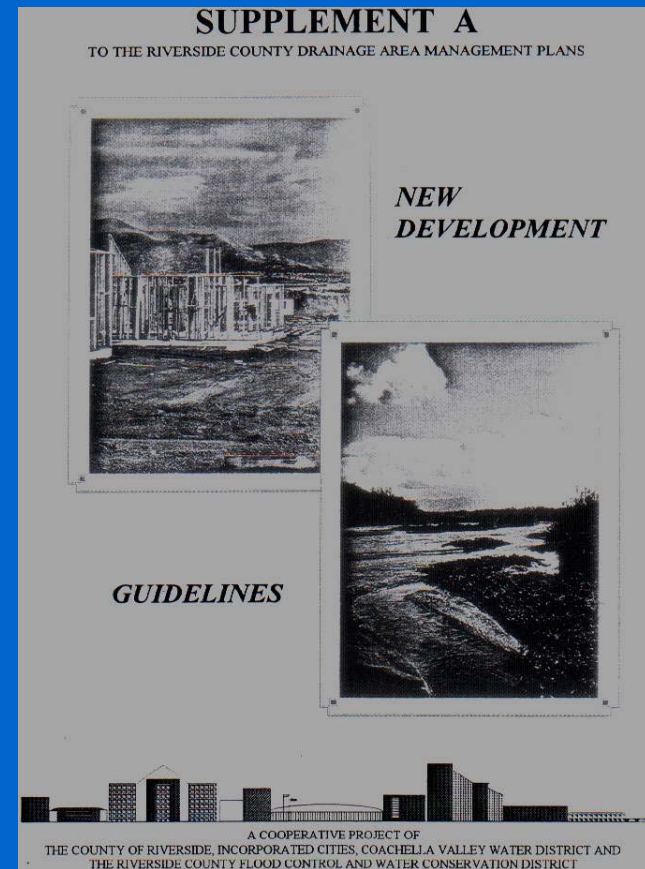
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## Development Planning & Construction



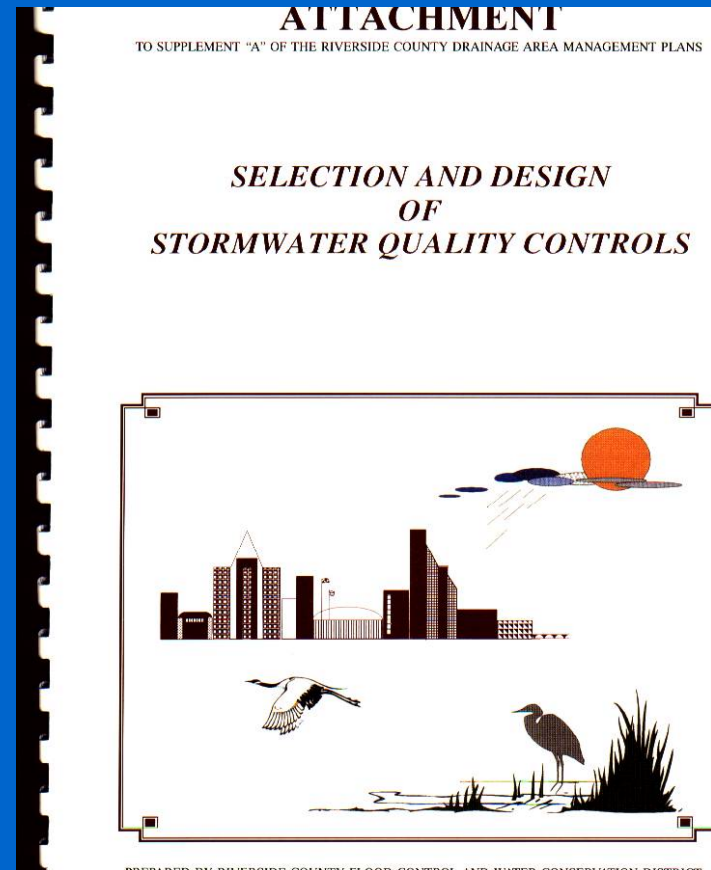
# Development Planning Current Permit

- Current Requirements:
  - Municipalities  
Implement Supplement  
A of DAMP (1996)
  - This document requires  
all projects (regardless  
of size) to implement  
Best Management  
Practices (BMPs)
    - Pollution Prevention
    - Treatment BMPs



# Development Planning Current Permit

- Attachment to Supplement A
  - Projects Only Consider Treatment BMPs
  - Each Municipality Should Establish BMP Performance Standard



# Development Planning New Permit (Page 9)

- What Am I Required To Do?
  - All projects (regardless of size) Will Be Required to Implement BMPs
    - Pollution Prevention
    - Treatment Controls
- Holds Municipalities Responsible for Implementation

# Development Planning New Permit

- What Changes Will I See?
  - Municipalities modify development approval process to address runoff :
    - Notify Projects of Requirements Early
      - BMPs Selected During Planning Stage Less Expensive
    - Consider Low Impact Development
      - Examples: Minimize Impervious Area, Buffer Zones
    - Establish & Require Minimum BMPs

# Development Planning New Permit

- Most Significant Change:
  - Standard Urban Storm Water Mitigation Plan (SUSMP)
    - Certain Priority Development Projects Have More Specific Requirements
    - These projects result in large increases in impervious surfaces or are potential significant source of pollutants

# Development Planning

## New Permit

- Project Categories:
  - Housing Subdivisions 10 or more units
  - Commercial developments greater than 100,000 ft<sup>2</sup>
  - Automotive Repair Shops
  - Restaurants
  - All hillside development greater than 5,000 ft<sup>2</sup>
  - Environmentally Sensitive Areas
  - Parking Lots Greater Than 5,000 ft<sup>2</sup> or 15 more spaces
  - Streets, roads, highways, and freeways
  - Retail Gasoline Outlets
- Permittees Can Add To Categories

# Development Planning New Permit

- Highlighted Project Requirements
  - Treatment BMPs
  - Long Term Maintenance
  - Prevent Increased Downstream Erosion

# Development Planning New Permit

- Treatment BMPs
  - Capture and/treat certain amount of runoff
  - Size Based On:
    - volume or flow of runoff from design storm event



# Development Planning New Permit

- Why Burden New & Redevelopment Projects?
  - Federal Clean Water Act
  - Less Costly Than Retrofitting
  - Ensure Problem Does Not Get Worse
  - Not New
    - Supplement A & Attachments
    - Already Doing Under 401 Certification

# Development Planning New Permit

- Costs:
  - Minimal Costs for Most BMPs
  - Site Design May Cost More Initially
- SUSMP Structural BMPs:
  - Less than 1% of Project Costs
  - SWRCB Found This Cost Reasonable



# Development Planning New Permit

- Enforcement
  - Project Denial
  - Regional Board Enforcement Against Municipality

# Construction-Current Permit

- Current Requirements For Municipalities:
  - Inspection
  - BMP Implementation
  - Enforcement of Ordinances
- Applies to All Construction Sites



# Construction-New Permit

- What Am I Required To Do?
  - Requirements Are Similar
    - Inspection (minimum frequency)
    - BMP Implementation
    - Enforcement
- Applies to All Construction Projects
- Holds Municipalities Responsible for Implementation & Enforcement

# Construction-New Permit

- What Changes Will I See?
  - Updated Grading Ordinances
  - Modify Approval Process
    - Require More Specific BMPs Before Grading Permit Issued
  - Increased Local Oversight

# Construction –New Permit

- Not Changing:
  - BMPs Requirements
    - Temporary Erosion Control
    - Sediment Control
    - Non Storm Water Discharges
    - Construction Materials Management



# Construction-Costs

- New Permit
  - No Increase to State Fees, Monitoring, Reporting
- BMPs Costs Should Be Similar
  - \$3000-4000 Per Acre
- Municipalities May Change Fees

# Construction-Why Requirements

- U.S. EPA Dual Regulation
  - Construction Sites Significant Source of Pollutants
  - State General Permit Does Not Apply to All Sites



# Construction-Enforcement

- Municipality Enforces Ordinance
  - May Increase Fine Amounts
  - Utilize Stop Work Authority
  - Refer Sites to Regional Board
- Regional Board
  - Can Enforce Both Municipality & Developer



# Education

- Very Important Component
  - Municipalities Required to Educate Stakeholders on Requirements & Expectations
  - Build Upon Current Efforts

# Questions?

- Megan Quigley (858) 268-5363 [mquigley@rb9.swrcb.ca.gov](mailto:mquigley@rb9.swrcb.ca.gov)
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- Copy of Tentative Permit:

[\*\*http://www.swrcb.ca.gov/rwqcb9/programs/rsd\\_stormwaterhtml\*\*](http://www.swrcb.ca.gov/rwqcb9/programs/rsd_stormwaterhtml)